

Superior Operability & Automation from Measurements to Inspection Report Creation



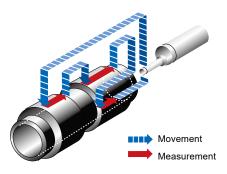


AI Function Simplifies Measurements

- The unit automatically selects the measuring conditions without setting them in advance (roughness measurement).
- A lesson mode is available to teach the user the operation procedures. This is a reflection of ACCRETECH's commitment to create measuring instruments that anyone can use.

Automation Enhances Measurement Efficiency

The teaching function can be used to automate a series of operations, from measurement at multiple locations to generation of an inspection report by pasting the data.



Evaluation Functions Dramatically Strengthened

Reflecting customer requests for more evaluation functions, this unit includes standards for film thickness measurement (step/area), wear volume calculation (superimposed profile area) and LCD glass substrate (special waviness).

Complies with World Standards

- This model complies with the latest ISO, JIS, DIN, ASME, CNOMO and other standards, and has cleared the requirements for the European safety standard CE marking.
- It supports operation using Japanese, Chinese, Korean English, German, French, Italian and Spanish.

Freedom to Re-Analyze

Re-analysis can be performed easily after changing the measurement standard (linear, first half, latter half, round surface, both end), configuring the evaluation range, and removing defective data from a notch.

Outstanding Expandability

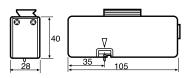
The unit can be easily and efficiently upgraded to meet evolving needs. This includes upgrading from two-dimensional to three-dimensional roughness, or adding profile capability.

Availability of a Variety of Pickups (Detectors)(Option)

A wide variety of detectors are available in accordance with the measurement needs of customers. *Provision of custom-made pickups will be considered upon customer request.

•High-magnification pickup

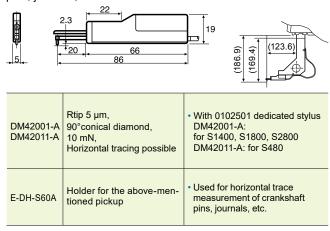
Low measuring pressure and stylus with a tip radius of 1µm enable roughness measurement at a higher accuracy. *Low measuring pressure allows measurement of easily scratched or soft materials.



E-DT-SH01B
Max. magnification: x500000
Measuring force 0.2 mN
With 0162854 stylus

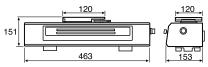
Thin pickup

Can be used for horizontal trace measurement of crankshaft pins, journals, etc.



Workpiece movement tracing driver

Depending on kinds, available types vary between 50 mm drive and 300 mm drive. With leveling adjustment function in the standard specifications, this product has been used for high accuracy waviness measurement of glass plates, etc. by many customers.



E-RM-S76B Driving speed: 0.03 mm/s to 6.0 mm/s, 8 speeds Straightness accuracy: (0.05 + 1.5L/1000) µm Weight: about 20 kg Load weight: 5 kg	s.
Load weight: 5 kg Leveling range: ±1°	

Specifications

Mandal					SURFCOM 1400G							
Model				-11	-12	-13	-14	-21	-22	-23	-24	
Z-axis (vertical)					800 µm							
Measuring range		X-axis (horizontal)			100 mm 200 mm							
Accuracy Measuring range Resolution			800 μm range to 25 μm range (6.4 μm range) ^{*2}									
		Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ^{*2}								
Resolution			0.04µm									
Tracing driver S		Straightness accuracy			0.05 + 1.5L/1000 μm (L: Measuring length mm)							
		Sensing method			Moire striped scale				Linear scale			
		Measuring speed			0.03, 0.06, 0.15, 0.3, 0				0.6, 1.5, 3, 6 mm/s (8 speed)			
		Colum up/down speed (Z-axis)			—		10 mm/s		—	10 mm/s		
Detector	Sensing met	nethod			Differential transducer							
	Roughness			neasuring force	Replaceable, 0.75 mN							
	measuremen			adius (material)	Roughness: Rtip 2 µm (60° conical diamond) Waviness: Rtip 800 µm (Ruby ball) Each stylus equipped as standard							
Tracing driver stroke			100 mm				200 mm					
Operation range		Column up/down stroke			250 mm 450 mm) mm	250	mm	450 mm	
		Dimensions			600 x 317 mm		1000 x 450 mm	600 x 317 m		m	1000 x 450 mm	
Granite table	Permissible loading weight	In use of desktop ant	use of desktop anti-vibration table (E-VS-S57C/S320A)			40 kg	30 kg	-	40 kg	35 kg	25 kg	-
		In use of large-size desktop anti-vibration table (E-VS-S321A)			50 kg	40 kg	30 kg	95 kg	50 kg	40 kg	30 kg	90 kg
		In use of anti-vibration table (E-VS-R16 E)			50 kg	40 kg	30 kg	55 kg	50 kg	40 kg	30 kg	50 kg
		In use of anti-vibration table (E-VS-S286 B)			50 kg	40 kg	30 kg	100 kg	50 kg	40 kg	30 kg	100 kg
Other		Installation dimensions ^{*1}		Width	2000 mm 230			2300 mm	2000 mm			2300 mm
				Depth	1000 mm				1000 mm			
				Height	1700 mm		1900 mm		1700 mm		1900 mm	
		Weight			115 kg	120 kg	130 kg	235 kg	120 kg	125 kg	135 kg	240 kg
		Power supply, frequency, consumption			Single-phase AC 100 V ±10% (grounding required), 50 Hz/60 Hz, 710 VA							

*1 : The dimensions of -11, -12, -13, -21, -22, -23 include the optional stand (E-VS-S13A) and desktop anti-vibration table (E-VS-S57C) and computer rack (E-DK-S24A).

The dimensions of -14, -24 include the optional large anti-vibration table (E-VS-R16E) and computer rack (E-DK-S24A).

*2 : The value is in use of high magnification pickup.